

CLAIMS

What is claimed as being new and desired to be protected by LETTERS PATENT of the United States is as follows:

1. A material feed hose system for allowing a user to move material from one location to another location while keeping the material heated and isolated, comprising in combination:

a multilayered hose having an inflow end and an outflow end and an intermediate length there between, the hose having a central pathway there through to allow the passage of material through the hose, the hose having an inner layer forming a smooth inner surface of the hose pathway and an intermediate insulating layer and an armored crush-resistant outer layer with a heating layer disposed between the inner layer and the intermediate layer;

a power source coupled to the heating layer by a wire;

a pair of hollow tubular fittings, with a fitting coupled to each end of the multilayered hose, each of the fittings fabricated of a rigid material and having a generally hollow tubular configuration with an inner end and an outer end, each fitting having a smooth inner surface forming a hollow tubular material pathway, the inner surface having a radius beveled inlet to reduce the area of diminished flow within the hose and a stepped outer surface to provide a gripping surface thereto;

a pair of hose clamps each clamp comprising a pair of like-configured halves with each half having an inner end and an outer end and an inner surface and an outer surface, the halves being mated along a longitudinal axis so that when coupled the halves form a tubular hollow recess within, with an aperture on the inner end of the clamp and an aperture on the outer end of the clamp, each half of the clamp having at least one pair of a threaded fastening means associated there with, with one half of the clamp having at least one pair of screw holes there through and the other half of the clamp having at least one pair of female threaded screw-receiving bosses for coupling and holding the clamp halves together.

2. A material feed hose system comprising, in combination:

a multilayered hose having an intermediate insulating layer and an armored crush-resistant outer layer with a heating layer disposed between the inner layer and the intermediate layer;

a power source coupled to the heating layer by a wire;

a pair of hollow tubular fittings having an inlet and an outlet, the inlet having a beveled radiused surface;

a pair of hose clamps having an inner end and an outer end and an inner surface and an outer surface, with an aperture on the inner end of the clamp and an aperture on the outer end of the clamp.

3. A material feed hose system as described in Claim 2 wherein the hose has an inner layer forming a smooth inner surface to allow the passage of material there through.

4. A material feed hose system as described in Claim 2 wherein each of the hose clamps comprise two halves, with each half having at least one pair of fastening means for coupling the two halves together associated there with.

5. A material feed hose system as described in Claim 2 wherein the fittings each have a stepped outer surface to provide a gripping surface thereto and each have a radius beveled inlet.

6. A method for constructing a material feed hose system for allowing a user to move material from one location to another location while keeping the material heated and isolated, comprising the following steps in combination:

providing a multilayered hose having an inflow end and an outflow end and an intermediate length there between, the hose having a central pathway there through to allow the passage of material through the hose, the hose having an inner layer forming a smooth inner surface of the hose pathway and an intermediate insulating layer and an armored crush-resistant outer layer with a heating layer disposed between the inner layer and the intermediate layer;

providing a power source coupled to the heating layer of the hose by a wire, the power source providing energy by which the

heating element may heat and maintain the temperature of the contents of the hose;

providing a pair of hollow tubular fittings, with a fitting coupled to each end of the multilayered hose, each of the fittings fabricated of a rigid material and having a generally hollow tubular configuration with an inner end and an outer end, each fitting having a smooth inner surface forming a hollow tubular material pathway, the inner surface having a radius beveled inlet to reduce the area of diminished flow within the hose and a stepped outer surface to provide a gripping surface thereto whereby the hose fittings allow for the minimum of dead space within the hose thereby decreasing the risk of stale material in the hose;

providing a pair of hose clamps each hose clamp comprising a pair of like-configured halves with each half having an inner end and an outer end and an inner surface and an outer surface; and

mating the halves of each hose clamp along a longitudinal axis so that when coupled the halves form a tubular hollow recess within, with an aperture on the inner end of the clamp and an aperture on the outer end of the clamp, each half of the clamp having at least one pair of a threaded fastening means associated there with, with one half of the clamp having at least one pair of screw holes there through and the other half of the clamp

having at least one pair of female threaded screw-receiving
bosses for coupling and holding the clamp halves together.